

JUL 01 2002
PATENT & TRADEMARK OFFICE
U.S. DEPARTMENT OF COMMERCE

Docket No. 13761-7064

Certificate of Mailing/Transmission (37 C.F.R. § 1.8(a))

X Pursuant to 37 C.F.R. § 1.8, I hereby certify that this paper and all enclosures are being deposited with the United States Postal Service as first class mail on the date indicated below in an envelope addressed to the Assistant Commissioner for Patents, Washington D.C. 20231.

Pursuant to 37 C.F.R. § 1.6(d), I hereby certify that this paper and all enclosures are being sent via facsimile on the date indicated below to the attention of Examiner _____ at Facsimile No _____ at _____ a.m. p.m.

Dated: June 26, 2002

Name of Person Certifying:

Printed Name: Bernice E. Worley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Zandi, et al.

Assignee: University of Southern California

Filing Date: February 19, 2002

Examiner: Not assigned

Serial No.: 10/079,949

Group Art Unit: 1645

Title: Composition and Method for Reconstituting IKB Kinase in Yeast and Methods of Using Same

Assistant Commissioner for Patents

Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

I. Timing of the Information Disclosure Statement:

This Information Disclosure Statement is filed:

- With the new patent application submitted herewith (37 C.F.R. § 1.97(a)).
- Within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 C.F.R. § 1.491.
- Before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114.
- Before the mailing of a first Office action on the merits. In the event, however, that an Office Action has crossed in the mail with this Information Disclosure Statement:
 - the Commissioner is hereby authorized to charge Deposit Account No. 50-1192, Docket No. 13761-7064 for the fee (\$180) set forth in 37 C.F.R. § 1.17(p) and any additional required fees.
 - a statement as specified in 37 C.F.R. § 1.97(e) is provided below.

This Information Disclosure Statement is filed:

- After the first Office Action and more than three months after the application's filing date; or PCT national stage date of entry filing, or after the mailing of a first Office Action after the filing of a request for continued examination, but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and
- the Commissioner is hereby authorized to charge Deposit Account No. [] for the fee (\$180) set forth in 37 C.F.R. § 1.17(p) and any additional required fees.
- a statement as specified in 37 C.F.R. § 1.97(e) is provided below.

This Information Disclosure Statement is filed:

- After the mailing date of either a final rejection or a notice of allowance, whichever occurred first, but on or before the payment of an issue fee, and is accompanied by the fee (\$180.00) set forth in 37 C.F.R. § 1.17(i)(1) and a certification as specified in 37 C.F.R. § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the Information Disclosure Statement.

Pursuant to 37 C.F.R. § 1.97(e), the undersigned certifies that:

- Each item of information contained in the Information Disclosure Statement was first cited in any communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

II. Copies of the Cited Items:

- Copies of all of the items listed on the attached Form PTO-1449 are enclosed.
- Copies of only the following items listed on the attached Form PTO-1449 are enclosed: _____.
- Copies of those items which are marked with an asterisk (*) in the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the Patent Office in a prior Application No. _____, filed _____ and relied upon in this application for an earlier filing date under 35 U.S.C. § 120. See 37 C.F.R. § 1.98(d).

- Copies of those items which are marked with an asterisk (**) in the attached Form PTO-1499 were cited in a foreign examination report in a related case. A copy of the search report and the cited references not already of record in this application are attached hereto.

III. Concise Explanation of Relevance:

- A concise explanation of relevance of the items listed on Form PTO-1449 is not given.
- A concise explanation of relevance of [some of] the items listed on Form PTO-1449 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

IV. Conclusion:

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO 1449 with initials or other appropriate marks.

The Commissioner is hereby authorized to charge Deposit Account No. 50-1192 and reference Docket No.: 13761-7064 for any additional fees required in connection with the filing of this Information Disclosure Statement.

DATE: June 26, 2000

Respectfully submitted,

By: 
Jennifer M. Phelps
Registration No.: 48.656

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13761-7064

10/079.949

INVENTOR

Zandi, et al.

FILING DATE
February 19, 2002GROUP ART UNIT
1645**COMPOSITION AND METHOD FOR
RECONSTITUTING I_KB KINASE IN YEAST AND
METHODS OF USING SAME****REFERENCE DESIGNATION****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	Class	Subclass	Filing Date If Appropriate
A1.						
A2.						
A3.						
A4.						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLATN
						yes no
B						
B3						
B2						
B4						

OTHER ART (Include Author, Title, Date, Pertinent Pages, etc.)

C1.	Auphan, N., J. A. DiDonato, C. Rosette, A. Helmberg, and M. Karin 1995. Immunosuppression by glucocorticoids: inhibition of NF-kappa B activity through induction of I kappa B synthesis. <i>Science</i> . 270:286-290.
C2.	Baeuerle, P. A., and D. Baltimore 1988. I kappa B: a specific inhibitor of the NF-kappa B transcription factor. <i>Science</i> . 242:540-546.
C3.	Baud, V., Z.-G. Liu, B. Bennett, N. Suzuki, Y. Xia, and M. Karin 1999. Signaling by proinflammatory cytokines: oligomerization of TRAF2 and TRAF6 is sufficient for JNK and IKK activation and target gene induction via an amino-terminal effector domain. <i>Genes & Develop.</i> 13:1297-1308.
C4.	Beg, A. A., and D. Baltimore 1996. An essential role for NF-kappa-B in preventing TNF-alpha-induced cell death. <i>Science</i> . 274:782-784.
C5.	Beg, A. A., W. C. Sha, R. T. Bronson, S. Ghosh, and D. Baltimore 1995. Embryonic lethality and liver degeneration in mice lacking the RelA component of NF- κ B. <i>Nature</i> . 376:167-169.
C6.	Brach, M. A., R. Hass, M. L. Sherman, H. Gunji, and R. Weichselbaum 1991. Ionizing radiation induces expression and binding activity of the nuclear factor kappa B. <i>J. Clin. Invest.</i> . 88:691-695.
C7.	Christianson, T. W., R. S. Sikorski, M. Dante, J. H. Shero, and P. Hieter 1992. Multifunctional yeast high-copy-number shuttle vectors. <i>Gene</i> . 110:119-122.

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DATE CONSIDERED

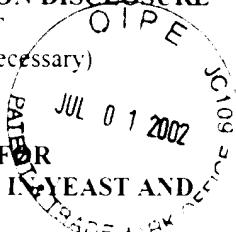
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**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT(S) INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

TITLE

**COMPOSITION AND METHOD FOR
RECONSTITUTING I_KB KINASE IN YEAST AND
METHODS OF USING SAME**



ATTY. DOCKET NO.

13761-7064

SERIAL NO.

10/079,949

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C9.	Gill, J. S., and A. J. Windebank 2000. Ceramide initiates NFkappaB-mediated caspase activation in neuronal apoptosis. Neurobiol. Dis. 7:448-461.
C10.	Gilmore, T. D., M. Koedood, K. A. Piffat, and D. W. White 1996. Rel/NF-kappa-B proteins and cancer. Oncogene. 13:1367-1378.
C11.	Guttridge, D. C., M. W. Mayo, L. V. Madrid, C. Y. Wang, and A. S. Baldwin, Jr. 2000. NF-kappaB-induced loss of MyoD messenger RNA: possible role in muscle decay and cachexia. Science. 289:2363-2366.
C12.	Huynh, Q. K., H. Boddupalli, S. A. Rouw, C. M. Koboldt, T. Hall, C. Sommers, S. D. Hauser, J. L. Pierce, R. G. Combs, B. A. Reitz, J. A. Diaz-Collier, R. A. Weinberg, B. L. Hood, B. F. Kilpatrick, and C. T. Tripp 2000. Characterization of the recombinant IKK1/IKK2 heterodimer. J. Biol. Chem. 275:25883-25891.
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C14.	Lee, J. I., and G. J. Burckart 1998. Nuclear factor kappa B: important transcription factor and therapeutic target. J. Clin. Pharm.. 38:981-993.
C15.	Li, N., and M. Karin 1998. Ionizing radiation and short wavelength UV activate NF-kappaB through two distinct mechanisms. Proc. Natl Acad. Sci U.S.A. 95:13012-13017.
C16.	Li, Q., D. VanAntwerp, D. Mercurio, K. F. Lee, and I. M. Verma 1999. Severe liver degeneration in mice lacking the I _K B kinase 2 gene. Science. 284:321-325.
C17.	Liu, Z. G., H. L. Hsu, D. V. Goeddel, and M. Karin 1996. Dissection of TNF receptor 1 effector functions -- JNK activation is not linked to apoptosis while NF-kappa-B activation prevents cell death. Cell. 87:565-576.
C18.	Makris, C., V. L. Godfrey, G. Krahn-Senftleben, T. Takahashi, J. L. Roberts, T. Schwarz, L. Feng, R. S. Johnson, and M. Karin 2000. Female mice heterozygous for IKK gamma/NEMO deficiencies develop a dermatopathy similar to the human X-linked disorder incontinentia pigmenti. Mol. Cell. 5:969-979.
C19.	May, M. J., F. D'Acquisto, L. A. Madge, J. Glockner, J. S. Pober, and S. Ghosh 2000. Selective inhibition of NF-kappaB activation by a peptide that blocks the interaction of NEMO with the IkappaB kinase complex. Science. 289:1550-1554.

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C20.	Mercurio, F., H. Zhu, B. W. Murray, A. Shevchenko, B. L. Bennett, J. Li, D. B. Young, M. Barbosa, M. Mann, A. Manning, and A. Rao 1997. IKK-1 and IKK-2: cytokine-activated IkappaB kinases essential for NF-kappaB activation. <i>Science</i> . 278:860-866.
C21.	Mosialos, G. 1997. The role of Rel/NF-kappa B proteins in viral oncogenesis and the regulation of viral transcription. <i>Sem. Cancer Biol.</i> 8:121-129.
C22.	Mumberg, D., R. Muller, and M. Funk 1994. Regulatable promoters of <i>Saccharomyces cerevisiae</i> : comparison of transcriptional activity and their use for heterologous expression. <i>Nuc. Acids Res.</i> 22:5767-5768.
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C24.	Pahl, H. L. 1999. Activators and target genes of Rel/NF-kB transcription factors. <i>Oncogene</i> . 18:6853-6866.
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C34.	VanAntwerp, D. J., S. J. Martin, T. Kafri, D. R. Green, and I. M. Verma 1996. Suppression of TNF-alpha-induced apoptosis by NF-kappa-B. Science. 274:787-789.
C35.	VanAntwerp, D. J., S. J. Martin, I. M. Verma, and D. R. Green 1998. Inhibition of TNF-induced apoptosis by NF-kappa B. Trends Cell Biol. 8:107-111.
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C39.	Yin, M.-J., Y. Yamamoto, and R. B. Gaynor 1998. The anti-inflammatory agents aspirin and salicylate inhibit the activity of I(kappa)B kinase-beta. Nature. 396:77-80.
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C41.	Yujiri, T., M. Ware, C. Widmann, R. Oyer, D. Russell, E. Chan, Y. Zaitsu, P. Clarke, K. Tyler, Y. Oka, G. R. Fanger, P. Henson, and G. L. Johnson 2000. MEK kinase 1 gene disruption alters cell migration and c-Jun NH ₂ -terminal kinase regulation but does not cause a measurable defect in NF-κB activation. Proc. Natl. Acad. Sci. U.S.A. 97:7272-7277.
C42.	Zandi, E., Y. Chen, and M. Karin 1998. Direct phosphorylation of IkappaB by IKKalpha and IKKbeta: discrimination between free and NF-kappaB-bound substrate. Science. 281:1360-1363.
C43.	Zandi, E., and M. Karin 1999. Bridging the gap: composition, regulation, and physiological function of the I _K B kinase complex. Mol. Cell. Biol. 19:4547-4551.

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C44.	Zandi, E., D. M. Rothwarf, M. Delhase, M. Hayakawa, and M. Karin 1997. The IkappaB kinase complex (IKK) contains two kinase subunits, IKKalpha and IKKbeta, necessary for IkappaB phosphorylation and NF-kappaB activation. Cell. 91:243-252.
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